

## ABSTRACT

An ultra-high speed image sensor is a frame transfer type.

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9/28/05  
A charge corresponding to an intensity of an incident ray is generated at an element ~~123b~~ of a charge transfer path ~~123~~ corresponding to each window ~~115~~. The generated charge is transferred on the charge transfer path ~~123~~ by voltages applied from the charge transfer electrodes ~~116~~ to ~~118~~. Each of the charge transfer electrodes ~~116~~ to ~~118~~ has a larger size in a charge transfer direction at portions corresponding to the window ~~115~~ than that at portions covered with the intercepting film ~~114~~.